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FACSIMILE TRANSMISSION COVER SHEET

APPLICATION/CONTROL NUMBER: 10/810,296

DATE: July 14, 2008

TO: Primary Examiner Michael Borin, Ph.D.

Art Unit: 1631, Techical Center 1600 via the

Central PTO Fax Center,

FAX: (571)-273-8300

FROM: Xing F. Wang, Applicant/Inventor,

16 Palm ST., Worcester, MA 01604,

TEL: (774)-239-3884

FAX: (508) -831-0592

MESSAGE:

The enclosed letter is in response to the Office Communication of July 10, 2008 regarding the US patent application (Application Number: 10/810,296).

NUMBER OF PAGES: 41 (INCLUDING THIS PAGE)

XING F WANG

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JUL 1 4 2008

Reply to Office communication of July 10, 2008

Appl. No. 10/810,296 Dated July 14, 2008

Appl. No. : 10/810,296

Confirmation No.: 1034

Applicant : Xing F. Wang

Filed : March 27, 2004

TC/A.U : 1631

Examiner : Jason M. Sims

Docket No. : XLH8FW

July 14, 2008

Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450

Dear Primary Examiner Dr. Michael Borin,

Please find enclosed the documents (38 sheets), which is used to respond to enclosed the Office communication of 7/10/2008 regarding the disapproval of the amendment to the claims file on 4/21/2008 because the amendment does not comply with the requirement of 37 CFR 1.121(c) and contains improper claim text markings.

The disapproval of the amendment to the claims filed on 4/21/2008 is incorrect because the amendment complies with the requirement of 37 CFR 1.121(c). Please consider to withdraw the incorrect disapproval.

JUL 1 4 2008 Reply to Office communication of July 10, 2008

A grant of patent rights for this invention has been issued by Australian patent office on 3/14/2008 since Australian national phase entry dated 8/23/2006. Please consider the US patent application has been over 4 years since filed dated 3/27/2004 and the Office Action Summary of 2/27/2007 has stated that the prosecution on the merits is closed in this application in accordance with the practice under EX parte Quayle, 1935 C.D. 11, 453 O.G.213.

I appreciate it if a grant of patent rights is issued in this case soon.

Respectfully submitted,

Xing F. Wang, Ph.D. Applicant

TEL: (774)239-3884 Fax: (508)831-0592

Encl.: 38 sheets:
A letter of 7/14/2008 (5 sheets),
Office communication of 7/10/08 (3 sheets),
Notice of Allowability of 4/16/08 (4 sheets),
Amendment to the claims filed on 4/21/08 (26 sheets).

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JUL 1 4 2008

Appl. No. 10/810,296

Reply to Office communication of July 10, 2008

Dated July 14, 2008

Appl. No. : 10/810,296

Confirmation No.: 1034

Applicant : Xing F. Wang

: March 27, 2004 Filed

: 1631 TC/A.U

: Jason M. Sims Examiner

Docket No. : XLH8FW

July 14, 2008

Commissioner for Patents, United States Patent and Trademark Office (USPTO), P.O. Box 1450, Alexandria VA 22313-1450

Dear Examiner Mr. Jason M. Sims,

This is in response to enclosed the Office communication of 7/10/2008 regarding the disapproval of the amendment to the claims filed on 4/21/2008because the amendment does not comply with the requirement of 37 CFR 1.121(c) and contains improper claim text markings.

The disapproval of the amendment to the claims filed on 4/21/2008 is incorrect because the amendment complies with the requirement of 37 CFR 1.121(c). Please consider to withdraw the incorrect disapproval

Reply to Office communication of July 10, 2008

based on the following facts:

According to enclosed the Notice of Allowance of 4/16/2008 (4 sheets), the applicant filed enclosed the amendment to the claims of this application on 4/21/2008, 9:20:25 AM (26 sheets), wherein based on the claims 1-10 to be allowed by this Notice, the previously presented claims 1-8 and 10 filed on 4/10/2008 1:10:38 PM remain in this application; and according to the examiner's amendment to the claim 9 presented in this Notice, the claim 9 filed on 4/10/2008 1:10:38 PM has been amended under 37 CFR 1.121 (c) as follows:

Under 37 CFR 1.121 (c): (2) When claim text with marking is required; the text of any added subject matter must be shown by underlining the added text (e.g., a, the); double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters (e.g., [[a]], [[the]]); and only claims having the status of "currently amended," or "withdrawn" if also being amended, shall include markings, the examiner's amendment presented in this Notice comprising:

in claim 9, last paragraph, which begins with the word "outputting," line 4, immediately after the word "called," the term "the" delete and the term --a-substitute therefore, or the text marking [[the]]a under 37 CFR 1.121 (c);

Reply to Office communication of July 10, 2008

in claim 9, last paragraph, which begins with the word "outputting," line 5, immediately proceeding the word "total," the term "a" delete and the term --the-substitute therefore, or the text marking [[a]] the under 37 CFR 1.121 (c);

in claim 9, last paragraph, which begins with the word "outputting," line 6, immediately proceeding the words "disease risk level," the term "a" delete and the term --the-- substitute therefore, or the text marking [[a]] the under 37 CFR 1.121 (c);

in claim 9, last paragraph, which begins with the word "outputting," line 6, immediately proceeding the word "primary," the term "a" delete and the term -- the-- substitute therefore, or the text marking [[a]]the under 37 CFR 1.121 (c);

in claim 9, last paragraph, which begins with the word "outputting," line 7, immediately proceeding the word "primary therapy," the term "a" delete and the term --the-- substitute therefore, or the text marking [[a]]the under 37 CFR 1.121 (c);

in claim 9, last paragraph, which begins with the word "outputting," line 8, immediately proceeding the words "secondary therapy target," the term "a" delete and the term --the-- substitute therefore, or the text marking [[a]] the under 37 CFR 1.121 (c);

in claim 9, last paragraph, which begins with the word "outputting," line 9, immediately proceeding the

Reply to Office communication of July 10, 2008

words "therapeutic efficiency," the term "a" delete and the term --the-- substitute therefore, or the text marking [[a]]the under 37 CFR 1.121 (c); and

in claim 9, last paragraph, which begins with the word "outputting," line 11, immediately proceeding the word "therapy," the term "the" delete and the term --a-- substitute therefore, or the text marking [[the]]a under 37 CFR 1.121 (c).

These text markings presented in enclosed the claim 9 have proved that the currently presented claims 1-10 filed on 4/21/2008, 9:20:25 AM contain proper claim text markings and fully comply with the requirement of 37 CFR 1.121 (c). Please consider to withdraw the incorrect disapproval and then the proceedings of this application are not awaiting and can be completed.

A grant of patent rights for this invention has been issued by Australian patent office on 3/14/2008 since Australian national phase entry dated 8/23/2006. Please consider the US patent application has been over 4 years since filed dated 3/27/2004 and the Office Action Summary of 2/27/2007 has stated that the prosecution on the merits is closed in this application in accordance with the practice under EX parte Quayle, 1935 C.D. 11, 453 O.G.213. The applicant appreciates it if a grant of patent rights

Reply to Office communication of July 10, 2008

is issued in this case soon.

Respectfully submitted,

Xing F Wang Ph

Xing F. Wang, Ph.D.

Applicant

TEL: (774)239-3884 Fax: (508)831-0592

Encl.: 33 sheets:
Office communication of 7/10/08 (3 sheets),
Notice of Allowability of 4/16/08 (4 sheets),
Amendment to the claims filed on 4/21/08 (26 sheets).

XING F WANG CENTRAL FAX CENTER

PAGE 09/19

JUL 14 2008



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Potent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Bus. 1450 Alexandria, Virginia 22313-1450 uvw.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------|-----------------|----------------------|---------------------|------------------|
| 10/810,296 | 03/27/2004 | Xing Fa Wang | XLH8FW | 1034 |
| 35673 | 7590 07/10/2008 | | EXAMINER | |
| XING FA WANG 16 PALM STREET | | | SIMS, JASON M | |
| WORCESTER, MA 01604-3844 | | | ART UNIT | PAPER NUMBER |
| | | | 1631 | |
| | | _ | | |
| | | | MAIL DATE | DELIVERY MODE |
| | • | | 07/10/2008 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) |
|--|---|--|
| | | WANG, XING FA |
| Response to Rule 312 Communication | 10/810,296 Examiner | Art Unit |
| | JASON M. SIMS | 1631 |
| | | |
| The MAILING DATE of this communication a | ppears on the cover shee | t with the correspondence address |
| | | |
| . 51-51 | Oan has been encodered a | and has been |
| The amendment filed on <u>21 April 2008</u> under 37 CFR 1 entered. | .312 nas been considered, a | ino nas been. |
| , — | - 45 | |
| b) entered as directed to matters of form not affecting | | |
| c) disapproved because the amendment was filed at | | • |
| Any amendment filed after the date the issue fi and the required fee to withdraw the application | | nied by a petition under 37 CFR 1.313(c)(1) |
| _ | n ijon issue. | • |
| d) 🗵 disapproved. See explanation below. | | |
| e) entered in part. See explanation below. | | |
| nendment to the claims filed on 4/21/2008 does not comply with the does not contain the proper claim text markings, see below. Amend comply with 37 CFR 1.121(c) which states: | requirements of 37 CFR 1.121 iments to the claims filed on or | (c) because the amendment rafter July 30, 2003 must |
| •• | til_i with all abanges (s | a additions and deletions |
| (c) Claims. Amendments to a claim must be made by rewriting the as indicated in this subsection, except when the claim is being cane | eled. Each amendment docume | ent that includes a change to |
| an existing claim, cancellation of an existing claim or addition of a presented, including the text of all pending and withdrawn claims, it | n the application. The claim lis | sing, including the text of the |
| claims, in the amendment document will serve to replace all prior v the status of every claim must be indicated after its claim number b | ersions of the claims, in the ap- | plication. In the claim listing, |
| expression: (Original), (Currently amended), (Canceled), (Withdraw | wn), (Previously presented), (N | ew), and (Not entered). |
| and the second s | | coulest and on Congression |
| (1) Claim ligting. All of the claims presented in a claim listing shall claims having the same status of "canceled" or "not entered" may be | c aggregated into one statemer | ıt (c.g., Claims 1–5 |
| (canceled)). The claim listing shall commence on a separate sheet etext of any part of the claims shall not contain any other part of the | of the amendment document and amendment. | d the sheet(s) that contain the |
| | | |
| (2) When claim text with markings is required. All claims being ou the claim listing, indicate a status of "currently amended," and be s | ubmitted with markings to indi | cate the changes that have |
| been made relative to the immediate prior version of the claims. The underlining the added text. The text of any deleted matter must be s | s text of my added subject ma | tter must be shown by |
| before and after the deleted characters may be used to show deletio | n of five or fewer consecutive | characters. The text of any |
| deleted subject matter must be shown by being placed within double claims having the status of "currently amended," or "withdrawn" if | also being amended, shall incl | ude markings. If a withdrawn |
| claim is currently amended, its status in the claim listing may be id | entified as "withdrawn—currer | ntly amended." |
| (3) When claim text in clean version is required. The text of all pen | ding claims not being currently | amended shall be presented |
| in the claim listing in clear version, i.e., without any markings in the any claim having the status of "original," "withdrawn" or "previous | re presentation of text. The pres | sentation of a clean version of |
| changed relative to the immediate prior version, except to omit may | kings that may have been present | ent in the immediate prior |
| version of the claims of the status of "withdrawn" or "previously pr with the status of "new" and presented in clean version, i.e., withou | it any underlining. | amendment tings be titolesien |
| | | • |
| (4) When claim text shall not be presented; canceling a claim. | | |
| | | |

5088310592

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| | Application No. | Applicant(s) | | |
|--|--|---|-------------------------|--|
| M-4 F AD B 204. | 0/810,296 | WANG, XING FA | | |
| MATICA AT AMAMAMILITA | xaminer | Art Unit | ` | |
| | ASON M. SIMS | 1631 | | |
| The MAILING DATE of this communication appear. All claims being allowable, PROSECUTION ON THE MERITS IS (O herewith (or previously mailed), a Notice of Allowance (PTOL-85) or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGH of the Office or upon petition by the applicant. See 37 CFR 1.313 ar | R REMAINS) CLOSED in other appropriate commu ITS: This application is s | ith the correspondence ad in this application. If not include the | uded | |
| 1. X This communication is responsive to the amendment filed 4/1 | <u>1/2008</u> . | • | | |
| 2. A The allowed claim(s) is/are 1-10. | | | | |
| 3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have be 2. Certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be 3. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of the noted below. Failure to timely comply will result in ABANDONMEN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives received: (a) CORRECTED DRAWINGS (as "replacement sheets") must be (a) Including changes required by the Notice of Draftsperson's 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's An Paper No./Mail Date (b) including changes required by the attached Examiner's An Paper No./Mail Date (c) Deposit of sheet. Replacement sheet(s) should be labeled as such in the host. 5. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR | cen received. ten received in Application the received in Application the received this communication to file. The of this application. If Note the attached EXAL eason(s) why the oath or the submitted, as Patent Drawing Review then the received the r | a reply complying with the remarks AMENDMENT or declaration is deficient. (PTO-948) attached in the Office action of a drawings in the trant (not the 1.121(d). | requirements NOTICE OF | |
| Attachment(s) | 6. ☐ Interview Sun Paper No,/M 7. ⊠ Examiner's Ar | ormal Patent Application mmary (PTO-413), fail Date, mendment/Comment | owance | |
| | 9. [] Other | | | |
| | | | | |

Application/Control Number: 10/810,296

Art Unit: 1631

Page 2

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Xing F. Wang on 12/5/2007.

In claim 9, last paragraph, which begins with the word "outputting," line 4, immediately after the word "called," the term "the" delete and the term - - a - - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 5, immediately proceeding the word "total," the term "a" delete and the term - - the - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 6, immediately proceeding the words "disease risk level" the term "a" delete and the term - - the - - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 6, immediately proceeding the word "primary," the term "a" delete and the term - . . the - - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 7, immediately proceeding the word "primary therapy," the term "a" delete and the term - - the - - substitute therefor.

Application/Control Number: 10/810,296

Art Unit: 1631

Page 3

In claim 9, last paragraph, which begins with the word "outputting," line 8, immediately proceeding the word "secondary therapy target," the term "a" delete and the term - - the - - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 9, immediately proceeding the word "therapeutic efficiency," the term "a" delete and the term - - the - - substitute therefor.

In claim 9, last paragraph, which begins with the word "outputting," line 11, immediately proceeding the word "therapy," the term "the" delete and the term - - a - - substitute therefor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Sims, whose telephone number is (571)-272-7540.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Marjorie Moran can be reached via telephone (571)-272-0720.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

// Jason Sims //

Application/Control Number: 10/810,296

Art Unit: 1631

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/Michael Borin, Ph.D./ Primary Examiner, Art Unit 1631 USPTO

4/21/2008 9:28:32 AM

PAGE

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Fax Sender at 5088310592

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30 (including cover page)

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seg.

Received Cover Page ======>

84/21/2889 69:17 5889310892 GACSTHILE TRANSMISSION COVER SHEET APPLICATION/CONTROL NUMBER: 10/810,296 DATE: April 19, 2009 TO: Techical Center 1600 via the Central PTO Fax Examiner: Mr. Jason M. Stas TEL: (571)-272-7540 Art Unit: 1631 FAX: (571)-273-6300 FROM: King F. Weng, Applicant/Inventor, 16 Palm ST., Worcestor, Mb 01504, TEL: (7741-239-)384 FAX: (508)-801-0592 MESSAGE: The amendement based on the Notice of Allevability dated April 16, 2000 regarding the US patent Application (Application Number: 10/810,296). NUMBER OF PAGES: 30 (ENCLUDING THIS PAGE)

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PAGE 15/19 * RCVD AT 7/14/2008 10:10:09 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/27 * DNIS:2738300 * CSID:5088310592 * DURATION (mm-ss):04-48

XING F WANG

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JUL 1 4 2008

Appl. No. 10/810,296

Reply to Notice of Allowability of April 16, 2008

Dated April 19, 2008

Appl. No. : 10/810,296

Confirmation No.: 1034

: Xing F. Wang Applicant

Filed : March 27, 2004

TC/A.U : 1631

: Jason M. Sims Examiner

Docket No. : XLH8FW

April 19, 2008

Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450

AMENDMENT

Dear Examiner Mr. Jason M. Sims,

Thank you and Primary Examiner Dr. Michael Borin for the Notice of Allowability of April 16, 2008.

Based on the Notice of April 16, 2008, please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper consisting of a total of 25 sheets.

Remarks begin on page 25 of this paper.

XING F WANG

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CENTRAL FAX CENTER PAGE 17/19
JUL 1 4 2008

Appl. No. 10/810,296 Dated April 19, 2008 Reply to Notice of Allowability of April 16, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A multiparameter screening Method for atherosclerosis-related coronary heart disease (CHD) or stroke comprising;

defining the disease as atherosclerosis-related CHD or stroke;

defining the normal as free from said disease;

defining the following parameters as atherosclerotic parameters consisting of c = the Low-density lipoprotein (LDL) concentration parameter in mg/dL or c = the C-reactive protein (CRP) concentration parameter in mg/L, p = the blood systolic pressure parameter in mmHg or p = the blood diastolic pressure parameter in mmHg or p = the blood diastolic pressure parameter in mmHg, f = the heart rate parameter in s⁻¹, a = the radius parameter along arterial radius in cm, T = the temperature parameter of blood plasma in °C, α = the angle parameter

Appl. No. 10/810,296 Dated April 19, 2008 Reply to Notice of Allowability of April 16, 2008

between the gravity and the mean velocity of blood fluid in arterial vessels in degree and z = the axial length parameter of diffusion flux along the inner wall in the axial direction of arterial vessels in cm, called the diffusion length parameter;

measuring, for an individual, the values of said atherosclerotic parameters presented in the following expressions:

$$J = A c^{\frac{11}{9}} (v^3 D^{16})^{\frac{1}{27}} \left(\frac{g \cos \alpha + f u}{z} \right)^{\frac{2}{9}}$$
 (1.1)

or

$$J = Bc^{\frac{11}{9}} p^{\frac{1}{3}} T^{\frac{16}{27}} a^{\frac{2}{3}} f^{\frac{2}{9}} z^{-\frac{2}{9}}$$
 (1.2)

and

$$J = E c^{\frac{11}{9}} D^{\frac{16}{27}} z^{-\frac{2}{9}} (\cos \alpha)^{\frac{2}{9}}$$
 (1.3)

wherein J = the mass transfer flux in 10^{-5} \cdot g/(cm²s), A, B and E = the constants of conversion factors, v = the eddy velocity of blood fluid in arterial vessels in cm/s, v = the mean velocity of the blood fluid in cm/s, D = the diffusion coefficient in cm²/s, and v = the gravitational acceleration in cm/s²;

measuring, for an individual not having the disease, the normal values of said

Appl. No. 10/810,296 Dated April 19, 2008 Reply to Notice of Allowability of April 16, 2008

atherosclerotic parameters;

- determining the disease risks yielded by the difference between said measured values and said normal values of said atherosclerotic parameters;
- adding all said disease risks containing a total risk of said disease;
- determining a disease risk level containing said total risk of said disease;
- selecting an atherosclerotic risk factor related to an atherosclerotic parameter having the greatest contribution to said total risk of said disease so as to result in said risk factor as a primary therapy target of said disease;
- selecting a greater flux between the LDL mass transfer flux and the monocyte mass transfer flux so as to result in said greater flux as a primary cause in said disease;
- selecting a greater concentration level between the LDL level in the serum and the CRP level in